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MR. BORNS: I've been in this room doing this before for the gas station next door for gasoline

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know.

I'm a retired professor of Geology at the University of Maine. I didn't get killed at Uwajima and I got out and worked for Bell Telephone for several years as an electronics technician and then went to college and I ended up with a Ph.D. in bedrock geology studying the core of the Appalachian Mountains just north of this here. And then I went back and got a second Ph.D. at Yale in Glacial Geology and I've been working in glacial history and climate change ever since. I've worked all over the world, but for the most part I've worked for the State University. I have had a constant research effort in Maine in a lot of places. I'm responsibile for the present glacial geology map of the state. I mapped the entire coast from Bar Harbor to Eastport over a period of years and I'm quite familiar with this area, in particular. And, so, I've had a lot of -- I know a lot about glacial geology. I don't know much about groundwater hydrology, but I do know that this man does. I

ice -- the land rose, the sea level rose, but the 02:14 49 1 02:14:57 2 land out rose the sea level rise, and so, we end up 3 with all these marine ocean features such as this 02:15:01 4 delta that we live on down in here above sea level. 02 15 07 02:15:09 5 Well, the ice retreated back into this area and then 6 the climate changed from a warming climate to a 02:15.15 7 cooling climate and the ice readvanced and 02:15:17 02.15.21 8 terminated, roughly, along this line. In other 9 words, this line goes right through -- it's a rough 02 15 26 line, but it's right through the end of Lamoine. 02:15:28 10 02.15 32 11 That was the end of this readvance. That was caused 02:15:37 12 by a climate change and we traced this readvance all 02:15:39 13 the way down into the southern part of the state all 02:15:39 14 the way back up to St. John, New Brunswick and it's 02:15:46 15 prevalent all over -- this is the first evidence --02.15 50 16 the first evidence -- in North America of this 02:15 55 17 advance, and it's situated in your town as well as

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where it is. We have people coming from various parts of the world into the Town of Lamoine to look at it in the gravel pits because gravel pits give us good exposure. It's quite a famous place.

other places, like, Cherryfield, but right here is

So, how does this thing happen? This is a delta. It looks very much like you've seen. Very much like this picture. I did this on my dining

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mention the situation and say that I can talk about

don't. But I have some perspectives. And I would

02.13.18 2 the value of this kind of situation regardless of

3 the value of the dollar -- the dollar value of the

4 gravel -- there are other values to consider. And

5 you can do what you want, but I also question

6 several things. What I would like to talk about is 02:13:30

7 how -- just in a few minutes -- how this hill became

8 in the news and so forth. How did it ever get

9 there? You'll notice there's a long series of red 02:13.49

02 13 52 10 lines that lead to eskers and they come down to this

02:13.54 11 line here, but when -- on March 26th, 23,000 years

02:14 03 12 ago we were under two feet of ice. The edge of the

02.14.07 13 ice was on the edge of the continental shelf about

02:14 09 14 out here somewhere and about 23,000 years ago the

02 14 13 15 global temperatures changed. They went up. The ice

02:14 17 16 margin started across the Gulf of Maine. By the

02.14 17 17 time 17,000 years ago the ice margin was right here

02.14.29 18 and the ocean was up against it. The ice margin

02 14 30 19 went back. The ocean went inland as far as east

02:14:34 20 Millinocket and the other valley to Bingham and so

02:14 38 21 forth. The whole middle part of Maine was under

water.

MR. STEED: You can talk at these guys in front

MR. BORNS: And then the sea level -- as the

1 room table about 4 hours ago. It's a cartoon. And,

2 this is to the south. This is to to the north. 02:16.38

Route 184 is right here. There's the well you've 02.16 44 3

4 been talking about; Cold Spring Well and this is the D2 16 50

5 delta. Well, this was formed at the very edge of 02:16:55

that readvance in that other diagram and it was 02.16.57 6

7 built into the ocean because the ocean was up 02 17.01

02 17 06 against the margin and the sea level is 250 feet

9 high and the water -- and, so, once this ice 02.17.09

02,17.15 10 advanced to that position, the climate abruptly got

02.17.19 11 warmer, temperatures came up to what they are today

02.17.22 12 in the summertime. There was mass melting to the

02:17:25 13 north of us. A lot of sand and gravel, a lot of

02:17.25 14 water went down in the glacier, formed subglacial

tubes and flowed out to the edge and those tubes 02.17.29 15

02.17.38 16 filled with gravel and those are called eskers. And

02 17.38 17 you live on the Lamoine/Ellsworth esker. And along

02.17.44 18 the line the ice went back. A lot of water

02.17.47 19 discharging from the tube flowed into the ocean and

02.17.53 20 formed these piles of gravel that came up to sea

02.17:53 21 level with water coming out, running out here

02:18:00 22 discharging down the slope and the whole delta grew

02:18 03 23 forward. In the process there's a lot of silt and

02.18:08 24 clay in the water because those tunnels are in a

02.18.08 25 grinding mill of the ice right down at the base of

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02.14 42 24

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the ice. It's grinding that rock up. It comes out as gray silt and clay and it comes out into the water and settles out everywhere out this way -- and that's what that blue stuff is. It's heavy duty marine clay. In places it's 200 feet thick and it's present all the way up to Millinocket with seashells, and so, that's the ocean. This is built in from the ocean and the top of it represents the sea level of 250 feet. That sea level is traceable over to Bar Harbor. It had big beaches around the

edges of the hills up high. It's 200 feet high all

the way up through Canada and here it is going

through the Town Hall in Lamoine.

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And, so, there it is. Now, as the gravel projected forward and moved out over the clay, the clay formed and the gravel built over it. And, so you get these fingers of clay that sort of come up against the front face of the delta all the way up in here. And, then, as the ice pulled back this was up against the ice and the ice went back and the back of the delta collapsed, and on top of that the sea came around and formed more clay back here. There's no clay under the gravel. There shouldn't be, but it is down this way. The delta that is down this way just a short ways was right at the edge of

1 down to its present level, the beaches were formed 02:21 42 2 02 21 44 all along the south side of the delta and sand and 3 02 21.49 gravel was cascaded down as the sea level dropped and formed this level of gravel that the cemetery 02.21 52 4 02 21 54 5 was on right down along the road here. Under that 6 is clay. It has to be. I haven't measured it, but 02 21:57 it's got to be there, and that's where the well is 7 02 22 03 in that sort of general situation. It makes me 02 22 05 8 wonder about this a little bit. Well, let me say 9 D2 22:08 02 22:13 10 something else. Okay. My point is, there's value -- in a scientific sense -- of this 02.22:15 11 delta -- a lot of value. And, a lot of people who 02.22 22 12 02.22.24 13 live outside of Maine know all about it along with 02 22 28 14 several others, but this is right on the edge of 02.22.31 15 that extensive hemispheric-wide readvance with the 02:22:36 16 climate change, big climate change; so there's some 02.22.41 17 value with that from that point of view. And, the 02 22 45 18 fact that it is a lovely delta with a wave-cut top 02.22:50 19 and the features around it is another good reason. 02.22:53 20 It's just a fine example of something that you have 02.22 57 21 in town -- as you're attempting to fool around with

again. 02 23 05 24 But, anyway, going to the well, the fact that 02 23:00 25 the -- I understand from talking to Willem Brutsaert

the idea of giving it up and it will never return

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02 23 04 23

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the readvance and there's no evidence anymore because the top has been destroyed. The height of sea level can only be felt here, not anywhere south,

so this marks the edge of that world-wide 4

5 hemispheric glacial climate change. And, why is

6 that important? That's important because a lot of 7

climate research is to look at the back -- back in

8 time, document this, build a model, see if the model

fits it and then push it forward into the future and

02.20.26 10 see where we're going to go. This becomes part --

02.20:31 11 this is used for that purpose. It's just one of

02:20:38 12 thousands of things like this, but this is unique to

North America, but it's not unique in a lot of

places, but right here it is a unique thing in the

sense it represents a major hemispheric climate.

Okay. So, if it's gone, so what? We have others along the margin up in Cherryfield. There are more of them. This is one sticking right out in your town. And, I don't know if you want a record or not, but there it is.

Now, just to add a little bit of -- I can't speak in terms of the hydrology. I just listened to Willem Brutsaert and see what he says, but here is this well and I don't know much about it, but as you see the land rebounded and the sea fell relatively

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and so forth that the water is more or less 02.23 12 02.23.16 2 continuously flowing there and we heard that it's

3 disconnected, but there's a big field of water that 02:23.19

02 23 23 4 may be feeding it, but if that's not quite right --

5 and I hear some yes, maybe and maybe no -- but if it 02.23.25

02.23.27 6 isn't, there's a possibility that that's getting

7 water from the bigger regional groundwater table 02 23 33

down below this line. And, so, that's fine. 02:23:39

02 23 42 9 Nothing wrong with that. If you dig a hole over

02:23:46 10 here it's not going to do anything to that except

02.23 49 11 you have a possibility of pollution over here on the

02:23 52 12 pit floor. And I'll remind you of this building

next door. The state said if you spill it's on the 02.23.52 13

02 23 58 14 floor of the gravel pit. The gravel is above the

02.24 01 15 groundwater table by state law by 5 feet. That's

02.24 06 16 got to be measured in the very wet season.

02:24:11 17 Otherwise, you see pits around in this area with

02.24:14 18

water above the floor in the wet season. If that

02.24.17 19 rule said 20 feet above the groundwater table you'd

02:24:21 20 be a lot better off than it is now according to the

02 24:28 21 state, but if you dump one gallon of gasoline, it's

02 24 29 22 3 million dollars to clean it up out of a water

02 24 33 23 supply. Three million dollars, I was told, by the

02.24 37 24 state. And so, the argument over here was, all

02 24 42 25 right. We've got pavement. So, what if the

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02 24 42 1	gasoline goes on the pavement, but it runs off the	02.27.14 1	MD. POPMS: Sagge rounding lands habited
02.24 45 2	pavement into the gravel and down and I think that		MR. BORNS: Sorry my voice isn't better.
02.24.49 3	argument at the state level convinced the Board to	1	MR. FENTON: You did a great job. I even heard
62 4	-		you. Mr. Holt, do you have questions?
5	do something about that and we don't have a gas		JOHN HOLT: No. I'm fine with this part.
02.24.59 6	station over there. That's an enormous amount of		MR. FENTON: Ms. De Tuede, do you have any
	money. I don't know about the pits here, but trucks	02.27.37 6	questions.
	that work in pits discharge gasoline by accident,	02:27 43 7	MS. DE TUEDE: Not regarding water, no.
	oil and so forth gets onto the floor which goes	02.27.43	MR. FENTON: He won't be here at the next
02:25:11 9	directly into the water supply here which in turn,	02.27.43 9	meeting so I just want to make sure everyone has
02.25.19 11	theoretically, will affect it over here in the well.	02.27.57 10	their chance. Seeing we don't have TV and it's 9
02 25 23 12	Theoretically. But we don't I don't so there	02 28 00 11	o'clock, Wednesday at 6:30. We'll continue this
02.25.23 12	we are. Questions here. Questions here. I don't	02:28:10 12	meeting on Wednesday at 6:30.
02.25 35 14	know the answers, but I think it's up to the Board,	13	(This meeting of the Lamoine Board of Appeals ended for the
02 25 36 15	of course, to figure it out and their groundwater	14	evening at 9:06 p.m., to be continued on Wednesday, March 28,
02 25 38 15	specialist, but there is an open-ended question in	15	2018.)
02:25:40 10	my mind about the details of this and the details of	16 17	
02 25 44 17	that and it seems to me that you can make an educated guess, but if you guess that it ought to be	17	
02.25 47 10		19	
02 25 56 20	preserved for non-economic reasons, you've got a	20	
02.25.00 21	good case. It's a very unique feature. Well, with	21	
02.26.04 22	that I'll quit. That's all I can say.  MR. FENTON: Questions from anybody?	22	
02 28 07 23	MR. STEED: I noticed that your diagram covers	23	
02.26 17 24	the north/south direction, but we're you looking	24	
02.26.15 25	east to west in the other diagram?	25	
	cost to west in the other diagram?		
	98		100
02.26.20 1	98 MR. BORNS: This is east/west. I don't know	1	100
02.26.20 <b>1</b>	MR. BORNS: This is east/west. I don't know	1 2	100 Certificate
		1 2 3	Certificate
02.26.23 2	MR. BORNS: This is east/west. I don't know what happens to the groundwater table here if you go	2	Certificate  I, Karen A Dube, a Notary Public in and for the
02.26.23 <b>2</b> 02.26.28 <b>3</b>	MR. BORNS: This is east/west. I don't know what happens to the groundwater table here if you go north/south. What does it look like? Does it rise?  MR. DEYLING: It drops to the northeast it	2 3 4	Certificate  I, Karen A Dube, a Notary Public in and for the  State of Maine, hereby certify that on March 26, 2018,
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